

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111418\
 Data File : VU028154.D
 Acq On : 15 Nov 2018 05:16
 Operator : MD/SY
 Sample : J5943-16
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 H0FN2

Quant Time: Nov 15 06:20:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111418WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Nov 15 06:14:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	130717	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	123932	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	56502	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	46432	4.28	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.60%
7) Chloroethane-d5	1.68	69	40196	4.67	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.40%
11) 1,1-Dichloroethene-d2	2.28	63	69176	3.41	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.20%
20) 2-Butanone-d5	4.20	46	83234	26.46	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	52.92%
24) Chloroform-d	4.65	84	79720	4.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.40%
26) 1,2-Dichloroethane-d4	5.31	65	48555	5.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.80%
32) Benzene-d6	5.34	84	173786	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.60%
36) 1,2-Dichloropropane-d6	6.33	67	65079	5.11	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.20%
41) Toluene-d8	7.57	98	156478	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.40%
43) trans-1,3-Dichloropropene-	7.85	79	15177	3.34	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	66.80%
46) 2-Hexanone-d5	8.31	63	116910	45.09	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.18%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	44604	4.96	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.20%
64) 1,2-Dichlorobenzene-d4	11.86	152	51659	4.89	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.41	62	24862	1.776	ug/L	98
8) Chloroethane	1.60	64	43185	5.123	ug/L #	51
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	512	0.060	ug/L #	20
12) 1,1-Dichloroethene	2.28	96	649	0.075	ug/L #	1
13) Acetone	2.34	43	20028	9.452	ug/L	89
14) Carbon disulfide	2.64	76	2937626	100.798	ug/L	100
15) Methyl Acetate	2.63	43	4288	0.757	ug/L #	91
18) trans-1,2-Dichloroethene	2.98	96	3372	0.365	ug/L	92
19) 1,1-Dichloroethane	3.45	63	1051	0.054	ug/L #	78
22) cis-1,2-Dichloroethene	4.23	96	18427	1.809	ug/L	95
30) Cyclohexane	4.99	56	3209	0.163	ug/L	90
33) Benzene	5.39	78	9110	0.218	ug/L	100
34) Trichloroethene	6.19	95	1059	0.103	ug/L	88
37) 1,2-Dichloropropane	6.33	63	6610	0.573	ug/L #	92
39) cis-1,3-Dichloropropene	7.23	75	887	0.057	ug/L #	22
42) Toluene	7.64	91	2588	0.060	ug/L	77
45) 1,1,2-Trichloroethane	8.04	97	2431	0.349	ug/L #	38

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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Nov 15 06:14:20 2018
Response via : Initial Calibration

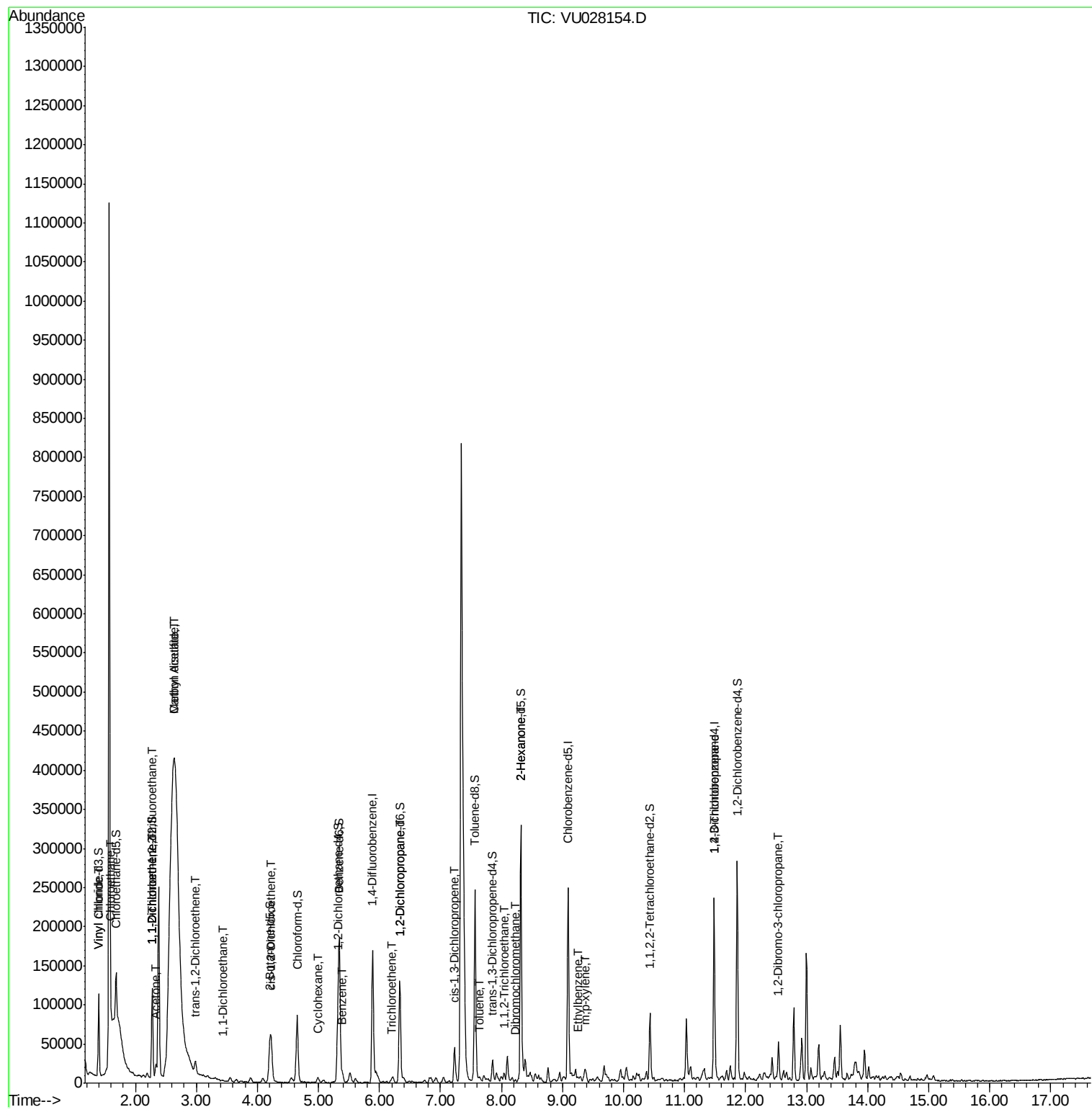
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.32	43	15063	2.663	ug/L #	68
49) Dibromochloromethane	8.23	129	651	0.088	ug/L #	11
52) Ethylbenzene	9.25	91	2732	0.058	ug/L	95
53) m,p-xylene	9.38	106	1083	0.063	ug/L	80
59) 1,2,3-Trichloropropane	11.48	75	8045	1.241	ug/L #	72
66) 1,2-Dibromo-3-chloropropan	12.53	75	412	0.332	ug/L #	3

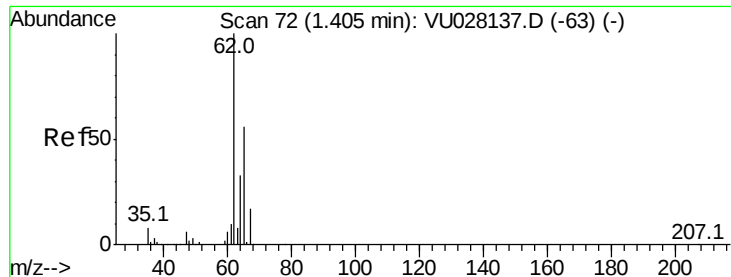
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.776 ug/L

RT: 1.41 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028154.D

Acq: 15 Nov 2018 05:16

Instrument :

MSVOA_U

ClientSampleId :

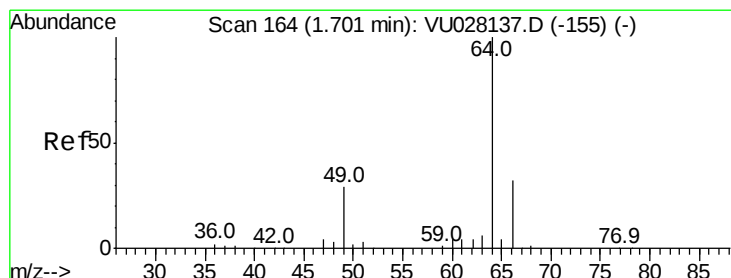
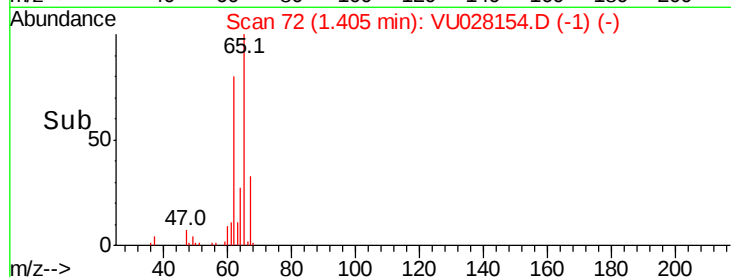
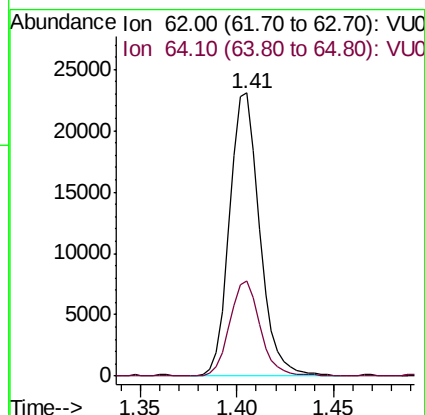
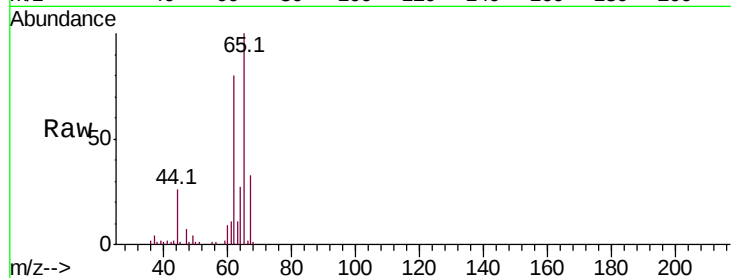
H0FN2

Tot Ion: 62 Resp: 24862

Ion Ratio Lower Upper

62 100

64 33.6 22.7 42.3



#8

Chloroethane

Concen: 5.123 ug/L

RT: 1.60 min Scan# 133

Delta R.T. -0.10 min

Lab File: VU028154.D

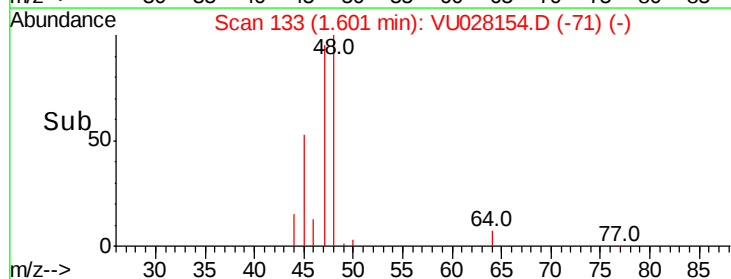
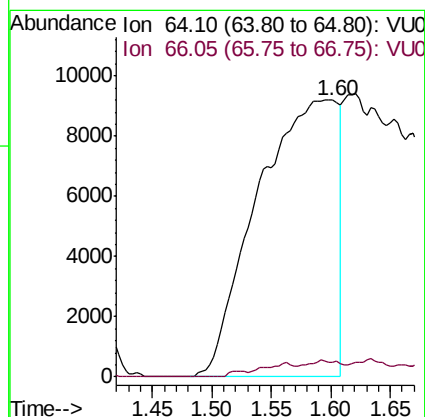
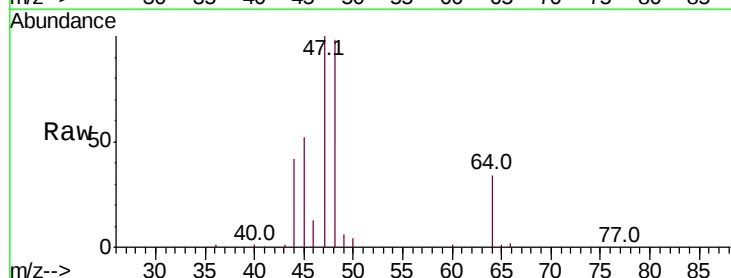
Acq: 15 Nov 2018 05:16

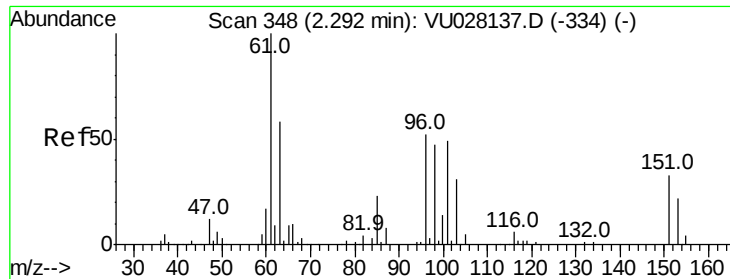
Tgt Ion: 64 Resp: 43185

Ion Ratio Lower Upper

64 100

66 5.3 23.1 42.9#





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.060 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.01 min

Lab File: VU028154.D

Acq: 15 Nov 2018 05:16

Instrument :

MSVOA_U

ClientSampled :

H0FN2

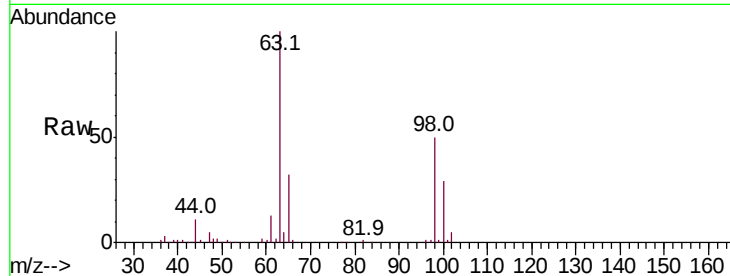
Tot Ion:101 Resp: 512

Ion Ratio Lower Upper

101 100

85 0.0 37.6 56.4#

151 0.0 58.2 87.2#

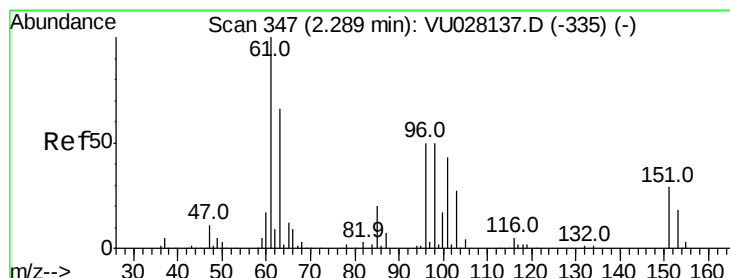
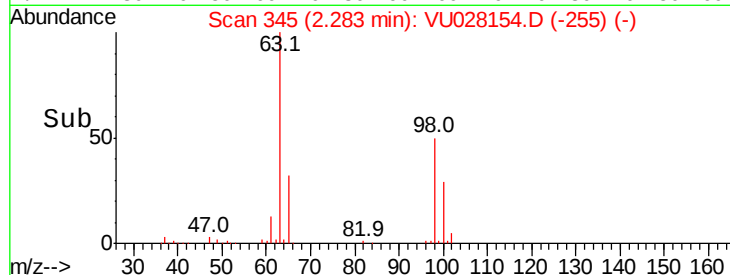
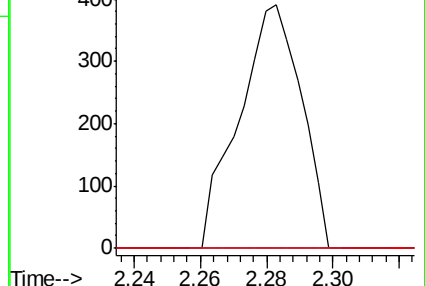


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V

2.28



#12

1,1-Dichloroethene

Concen: 0.075 ug/L

RT: 2.28 min Scan# 344

Delta R.T. -0.01 min

Lab File: VU028154.D

Acq: 15 Nov 2018 05:16

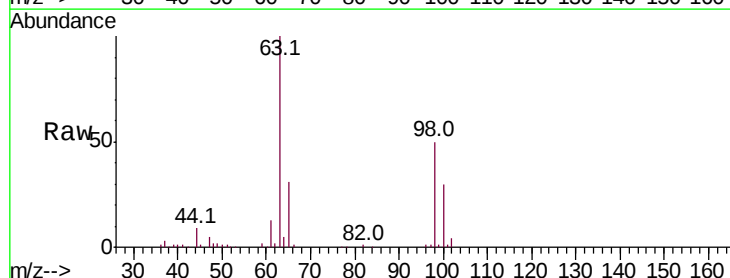
Tgt Ion: 96 Resp: 649

Ion Ratio Lower Upper

96 100

61 1343.6 134.8 250.3#

63 10527.5 100.1 185.9#

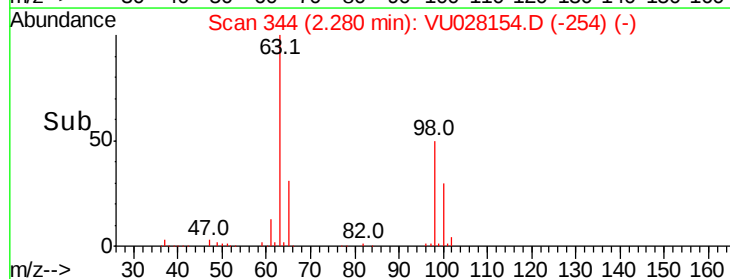
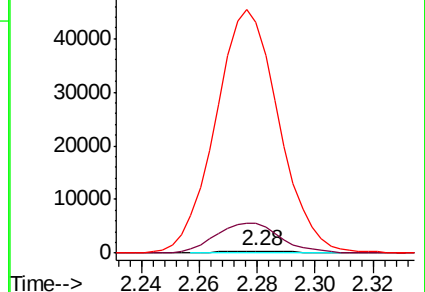


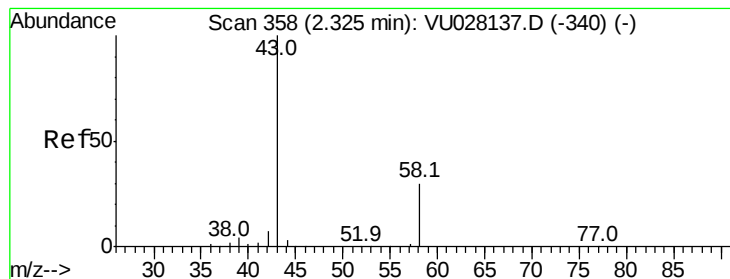
Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0

2.28





#13

Acetone

Concen: 9.452 ug/L

RT: 2.34 min Scan# 362

Delta R.T. 0.01 min

Lab File: VU028154.D

Acq: 15 Nov 2018 05:16

Instrument :

MSVOA_U

ClientSampleId :

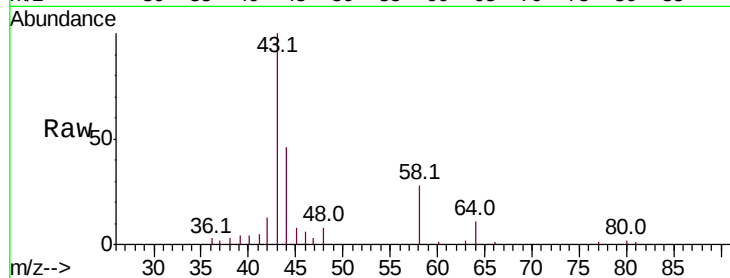
H0FN2

Tot Ion: 43 Resp: 20028

Ion Ratio Lower Upper

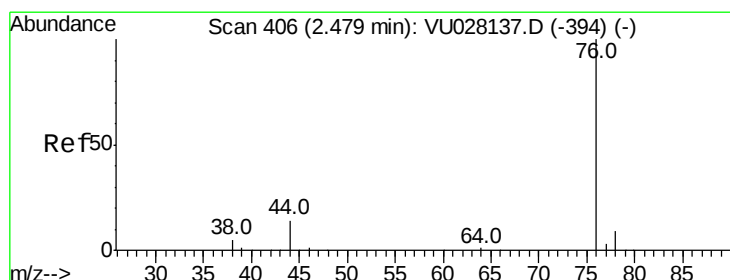
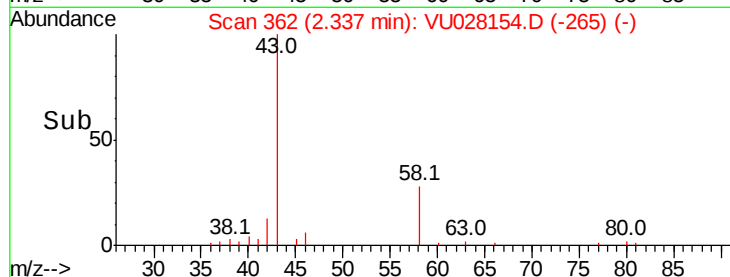
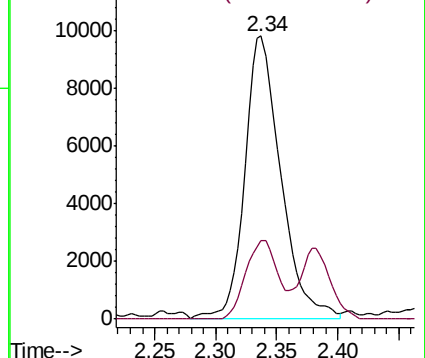
43 100

58 24.8 0.0 61.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 100.798 ug/L

RT: 2.64 min Scan# 455

Delta R.T. 0.16 min

Lab File: VU028154.D

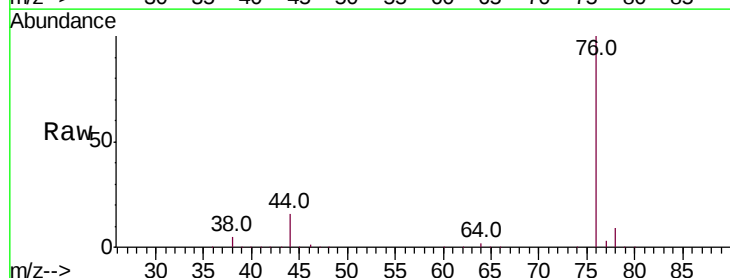
Acq: 15 Nov 2018 05:16

Tgt Ion: 76 Resp: 2937626

Ion Ratio Lower Upper

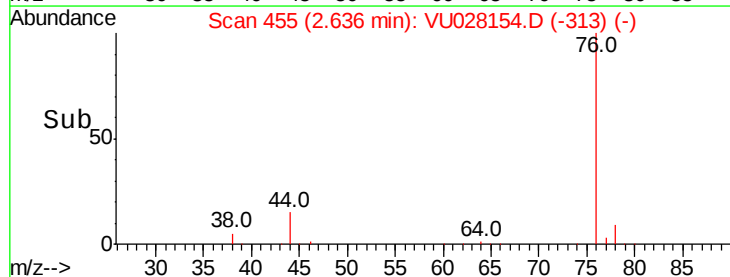
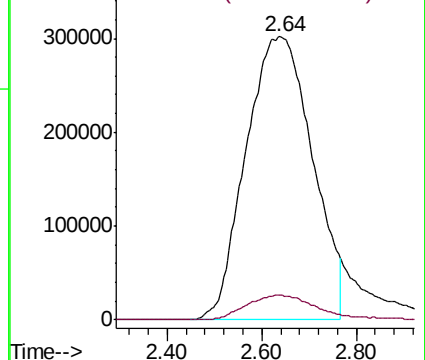
76 100

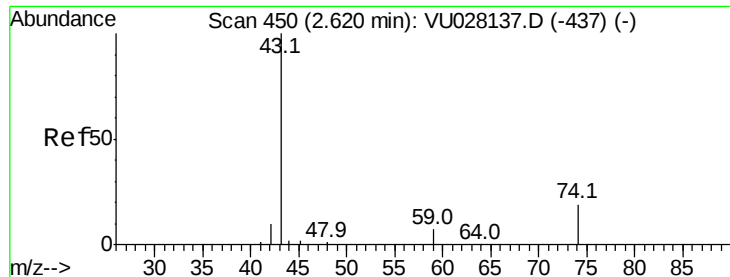
78 8.8 7.0 10.4



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0





#15

Methyl Acetate

Concen: 0.757 ug/L

RT: 2.63 min Scan# 452

Delta R.T. 0.01 min

Lab File: VU028154.D

Acq: 15 Nov 2018 05:16

Instrument :

MSVOA_U

ClientSampled :

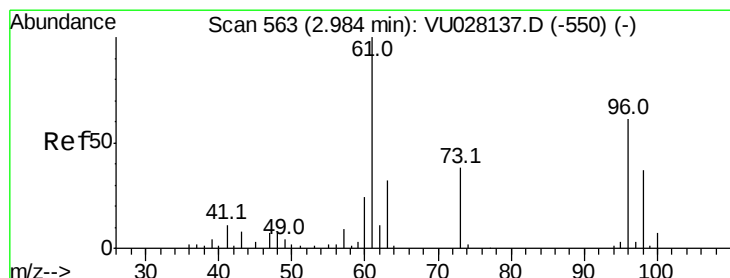
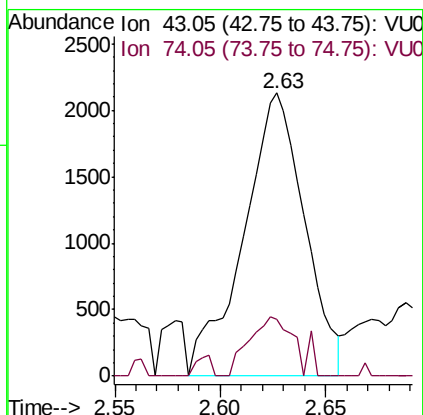
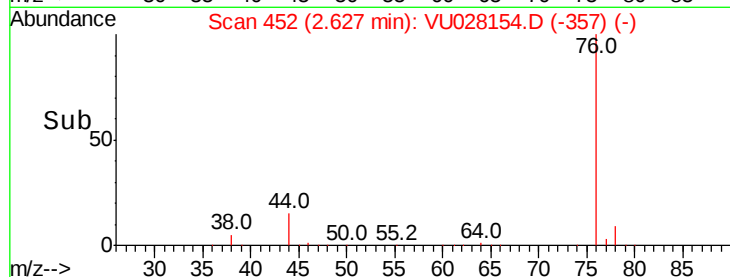
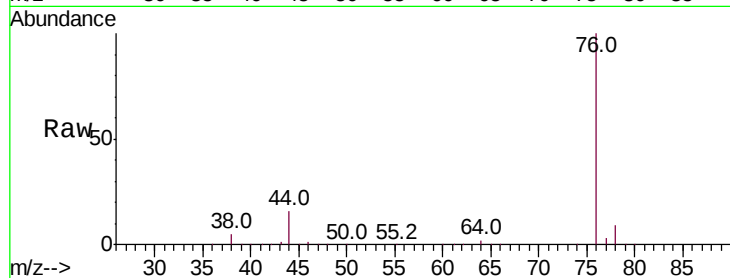
H0FN2

Tot Ion: 43 Resp: 4288

Ion Ratio Lower Upper

43 100

74 14.6 14.9 22.3#



#18

trans-1,2-Dichloroethene

Concen: 0.365 ug/L

RT: 2.98 min Scan# 563

Delta R.T. 0.00 min

Lab File: VU028154.D

Acq: 15 Nov 2018 05:16

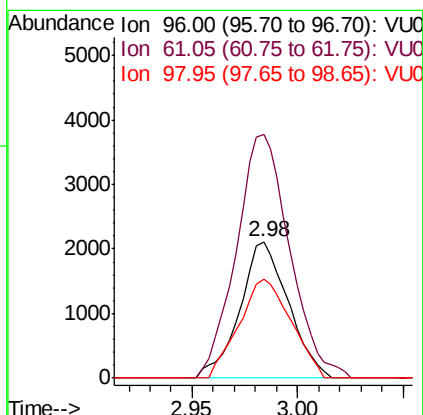
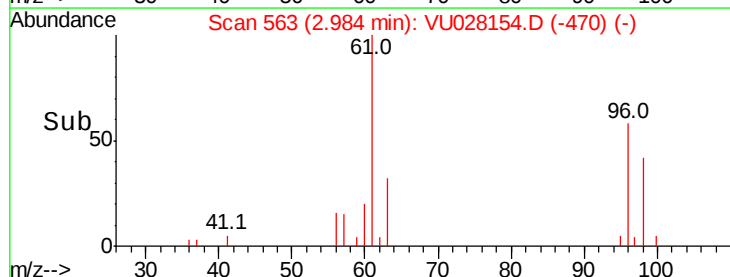
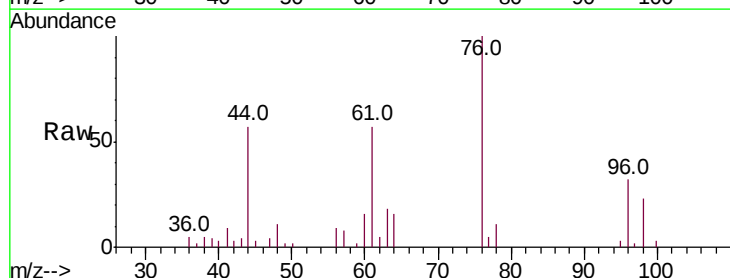
Tgt Ion: 96 Resp: 3372

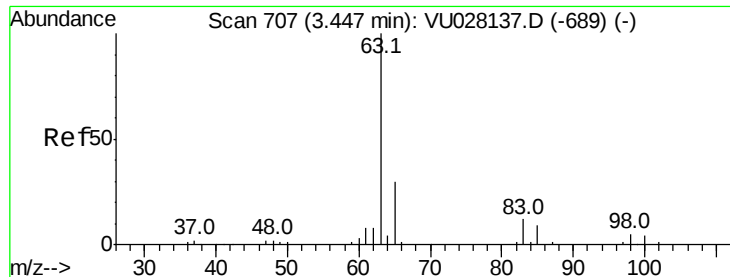
Ion Ratio Lower Upper

96 100

61 178.4 118.5 220.1

98 72.3 44.9 83.5





#19

1,1-Dichloroethane

Concen: 0.054 ug/L

RT: 3.45 min Scan# 708

Delta R.T. 0.00 min

Lab File: VU028154.D

Acq: 15 Nov 2018 05:16

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MSVOA_U

ClientSampleId :

H0FN2

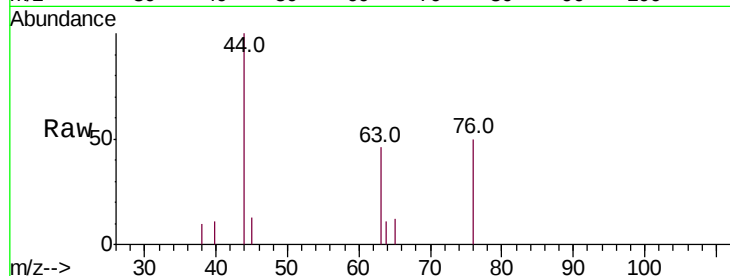
Tot Ion: 63 Resp: 1051

Ion Ratio Lower Upper

63 100

65 21.4 22.2 41.2#

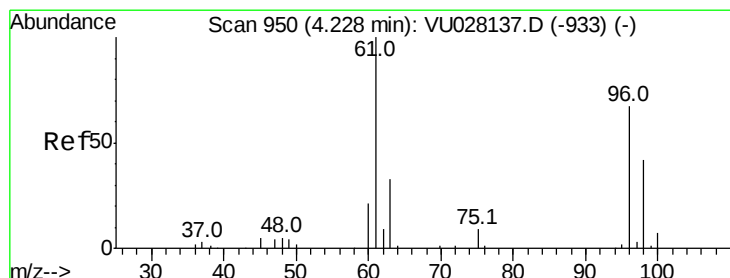
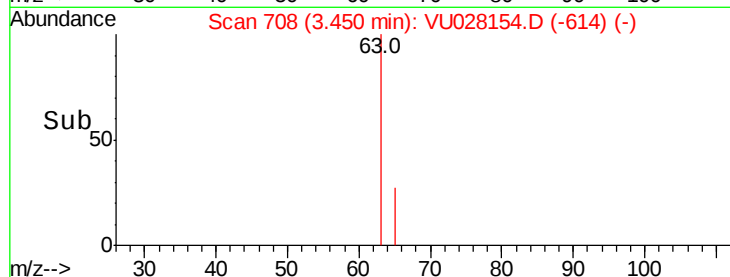
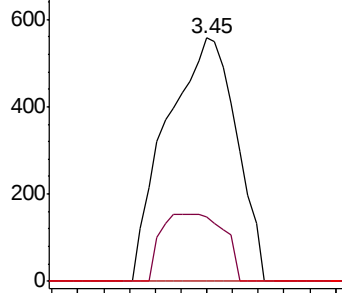
83 0.0 8.9 16.5#



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0



#22

cis-1,2-Dichloroethene

Concen: 1.809 ug/L

RT: 4.23 min Scan# 950

Delta R.T. 0.00 min

Lab File: VU028154.D

Acq: 15 Nov 2018 05:16

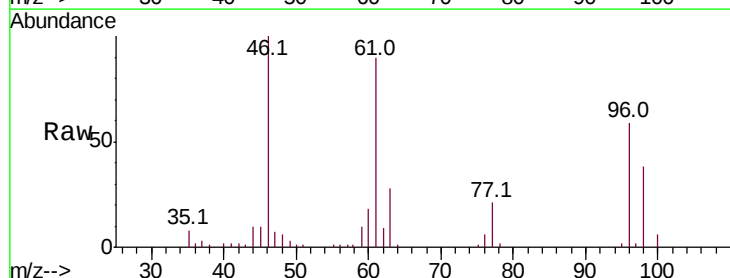
Tgt Ion: 96 Resp: 18427

Ion Ratio Lower Upper

96 100

61 152.1 101.8 189.0

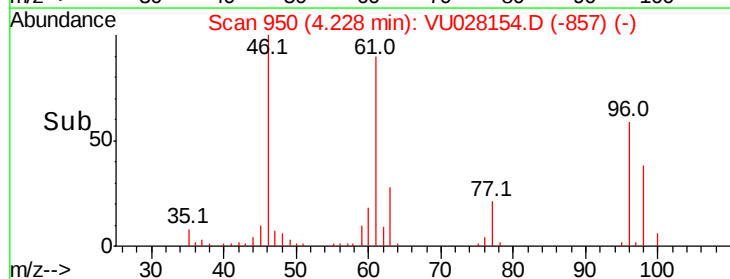
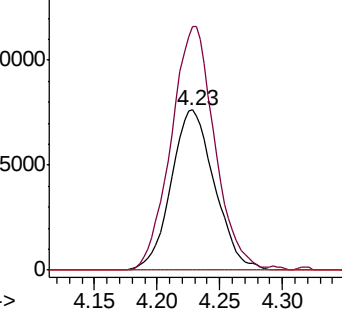
68 0.0 0.0 0.0

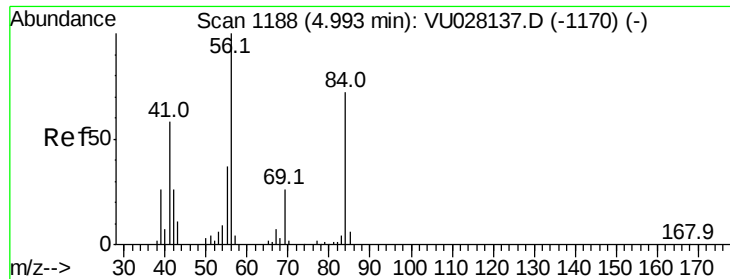


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0

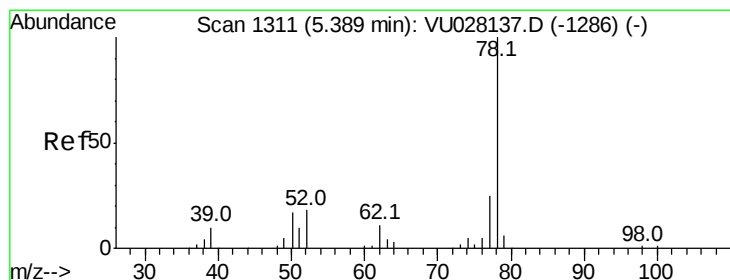
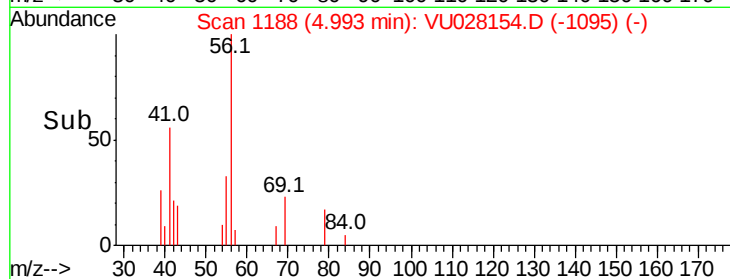
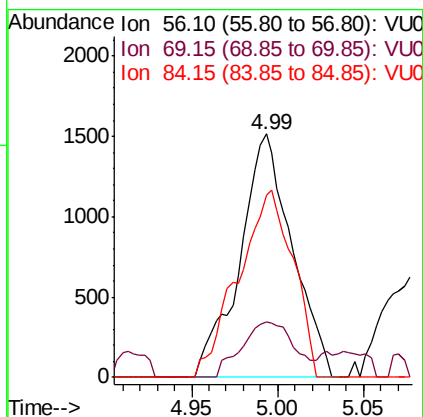
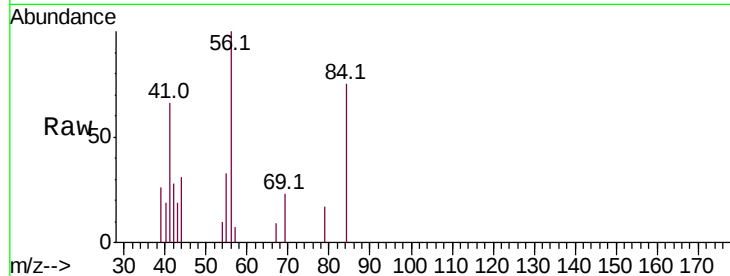




#30
Cyclohexane
Concen: 0.163 ug/L
RT: 4.99 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU028154.D
Acq: 15 Nov 2018 05:16

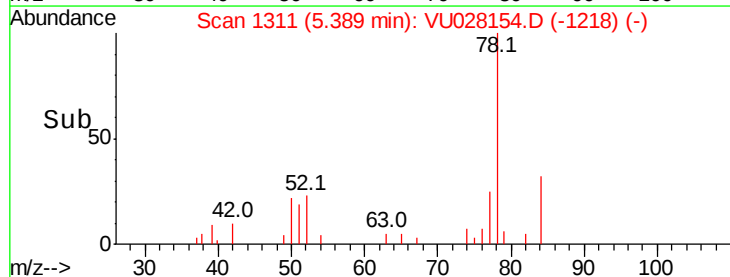
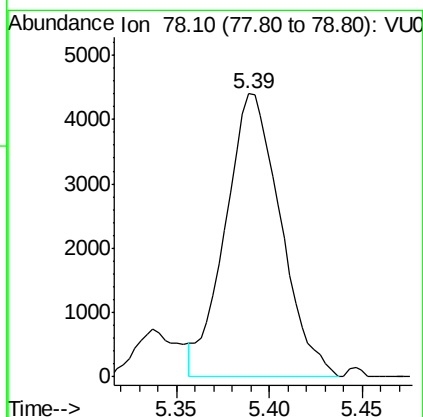
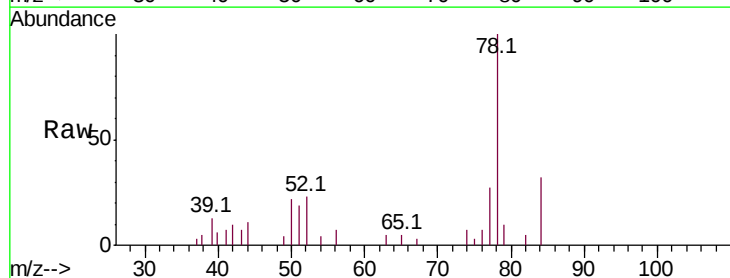
Instrument :
MSVOA_U
ClientSampleId :
H0FN2

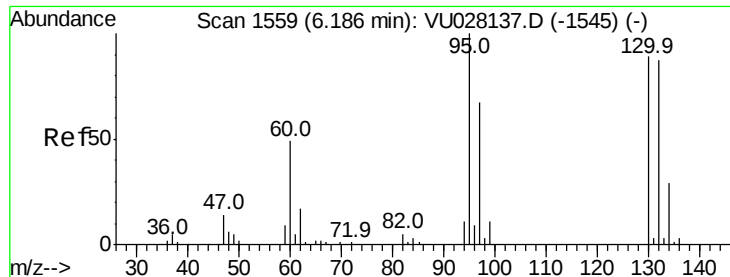
Tot Ion: 56 Resp: 3209
Ion Ratio Lower Upper
56 100
69 23.2 22.6 33.8
84 80.1 57.7 86.5



#33
Benzene
Concen: 0.218 ug/L
RT: 5.39 min Scan# 1311
Delta R.T. 0.00 min
Lab File: VU028154.D
Acq: 15 Nov 2018 05:16

Tgt Ion: 78 Resp: 9110





#34

Trichloroethene

Concen: 0.103 ug/L

RT: 6.19 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VU028154.D

Acq: 15 Nov 2018 05:16

Instrument :

MSVOA_U

ClientSampleId :

H0FN2

Tot Ion: 95 Resp: 1059

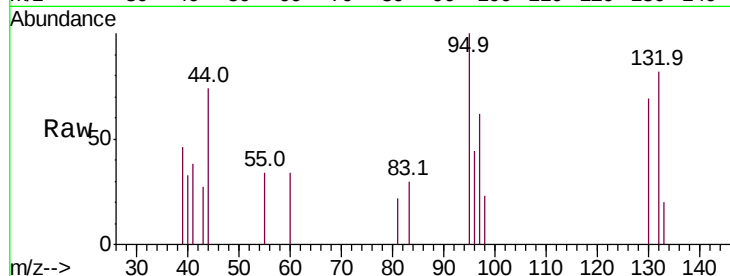
Ion Ratio Lower Upper

95 100

97 61.9 45.3 84.1

132 82.1 63.0 117.0

130 69.4 63.6 118.2

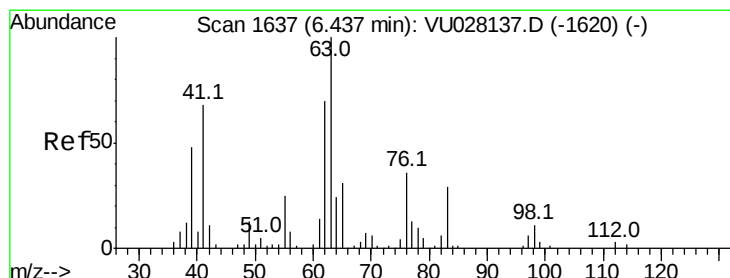
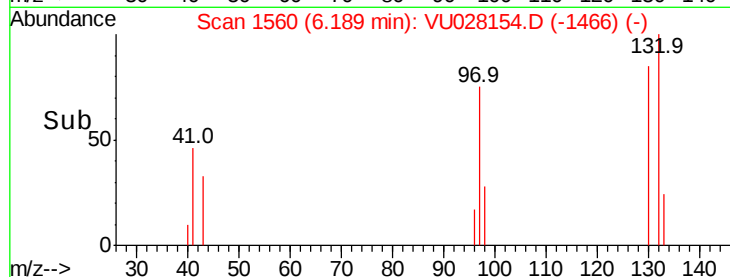
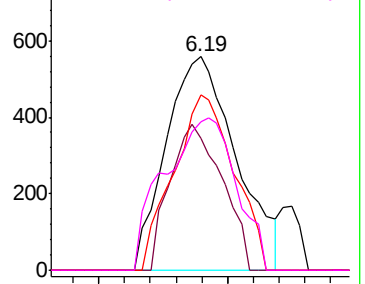


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#37

1,2-Dichloropropane

Concen: 0.573 ug/L

RT: 6.33 min Scan# 1605

Delta R.T. -0.10 min

Lab File: VU028154.D

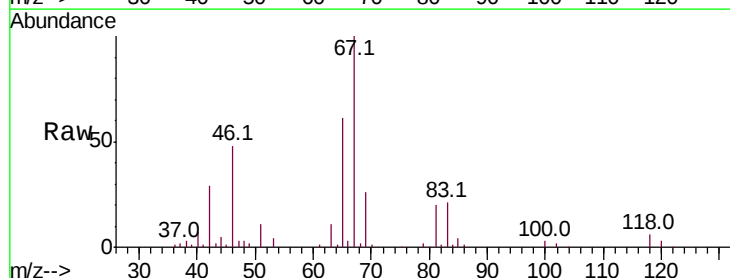
Acq: 15 Nov 2018 05:16

Tgt Ion: 63 Resp: 6610

Ion Ratio Lower Upper

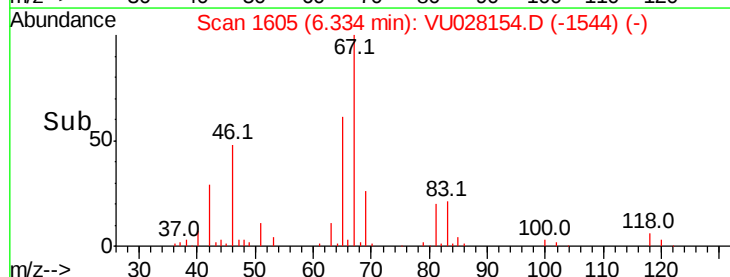
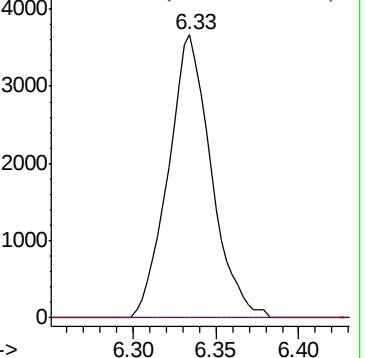
63 100

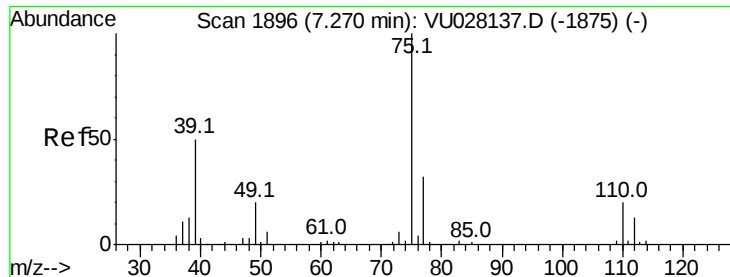
112 0.0 2.2 3.4#



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V



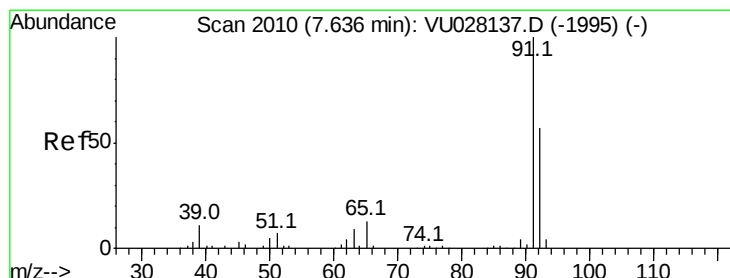
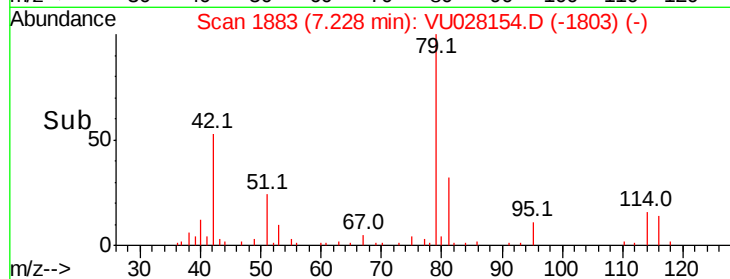
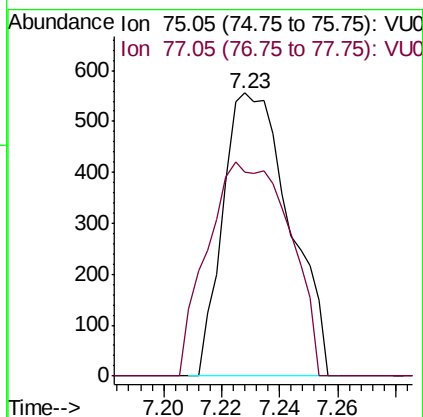
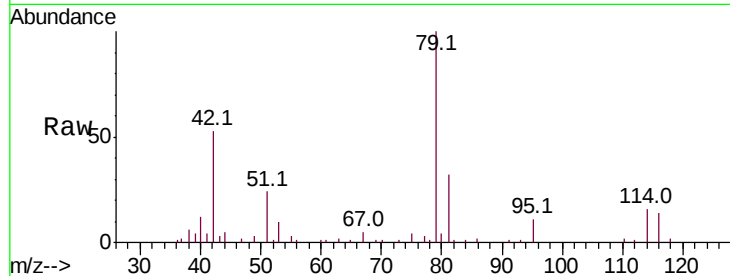


#39

cis-1,3-Dichloropropene
Concen: 0.057 ug/L
RT: 7.23 min Scan# 1883
Delta R.T. -0.04 min
Lab File: VU028154.D
Acq: 15 Nov 2018 05:16

Instrument :
MSVOA_U
ClientSampleId :
H0FN2

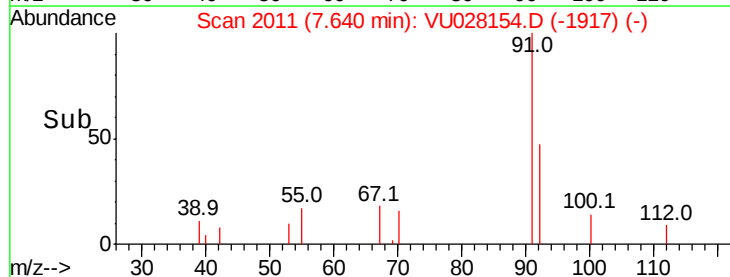
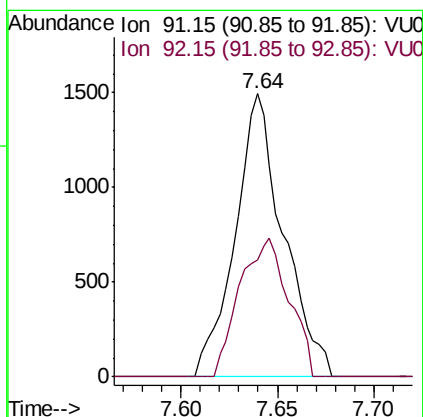
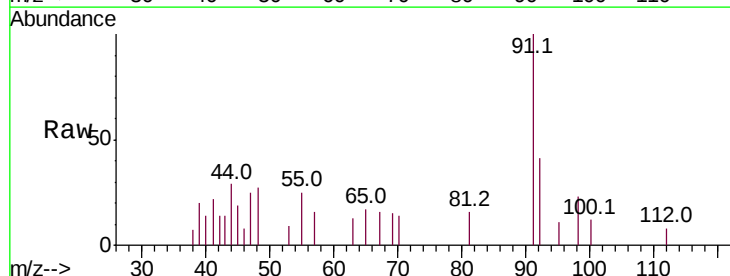
Tot Ion: 75 Resp: 887
Ion Ratio Lower Upper
75 100
77 71.9 20.9 38.9#

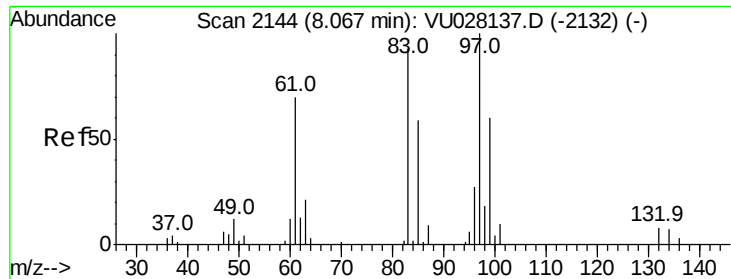


#42

Toluene
Concen: 0.060 ug/L
RT: 7.64 min Scan# 2011
Delta R.T. 0.00 min
Lab File: VU028154.D
Acq: 15 Nov 2018 05:16

Tgt Ion: 91 Resp: 2588
Ion Ratio Lower Upper
91 100
92 41.4 40.7 75.7

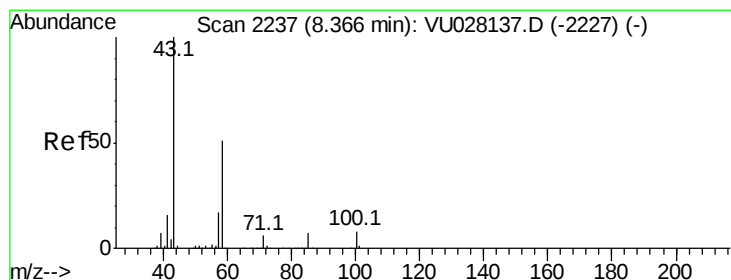
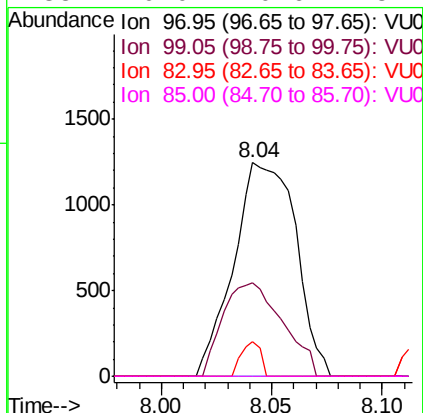
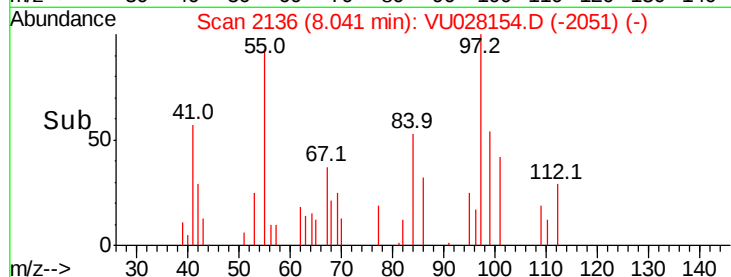
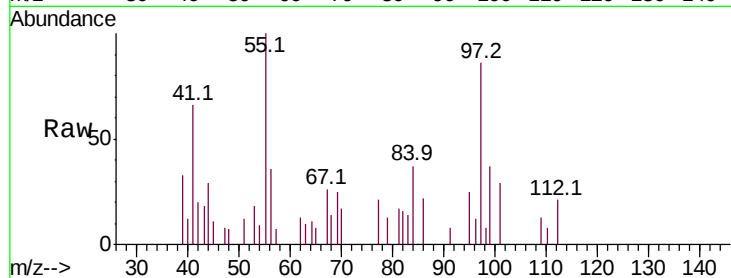




#45
 1,1,2-Trichloroethane
 Concen: 0.349 ug/L
 RT: 8.04 min Scan# 2136
 Delta R.T. -0.03 min
 Lab File: VU028154.D
 Acq: 15 Nov 2018 05:16

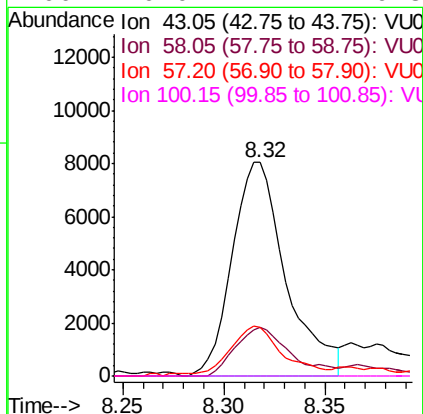
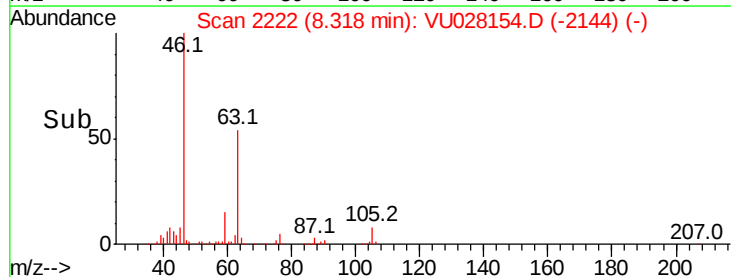
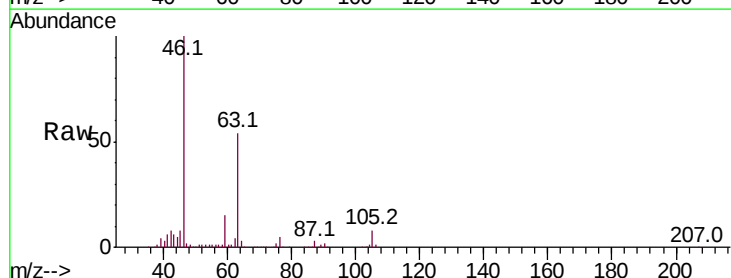
Instrument :
 MSVOA_U
 ClientSampleId :
 H0FN2

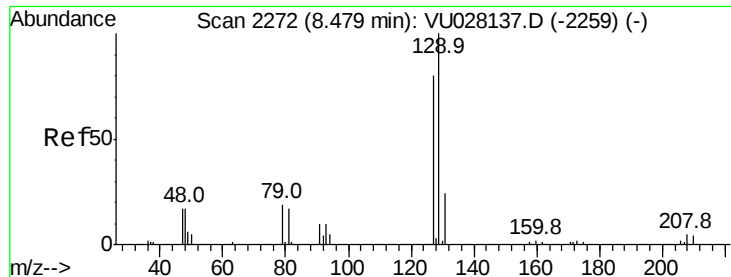
Tot Ion: 97 Resp: 2431
 Ion Ratio Lower Upper
 97 100
 99 43.5 42.1 78.1
 83 16.3 63.7 118.3#
 85 0.0 40.6 75.4#



#48
 2-Hexanone
 Concen: 2.663 ug/L
 RT: 8.32 min Scan# 2222
 Delta R.T. -0.05 min
 Lab File: VU028154.D
 Acq: 15 Nov 2018 05:16

Tgt Ion: 43 Resp: 15063
 Ion Ratio Lower Upper
 43 100
 58 23.1 41.7 62.5#
 57 20.6 14.0 21.0
 100 0.0 7.2 10.8#





#49

Dibromochloromethane

Concen: 0.088 ug/L

RT: 8.23 min Scan# 2194

Delta R.T. -0.25 min

Lab File: VU028154.D

Acq: 15 Nov 2018 05:16

Instrument :

MSVOA_U

ClientSampleId :

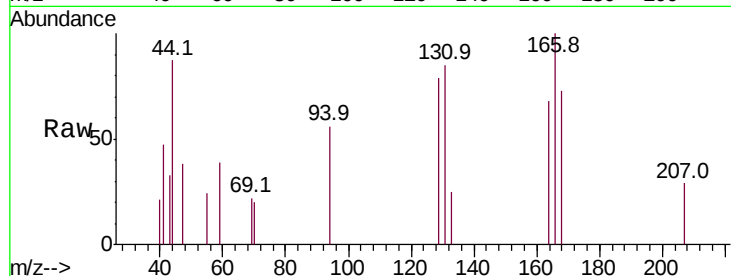
H0FN2

Tot Ion:129 Resp: 651

Ion Ratio Lower Upper

129 100

127 0.0 54.1 100.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.23

400

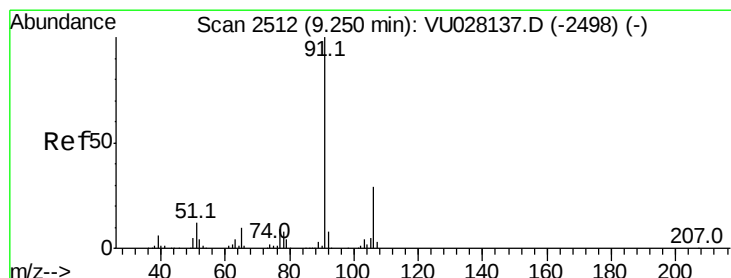
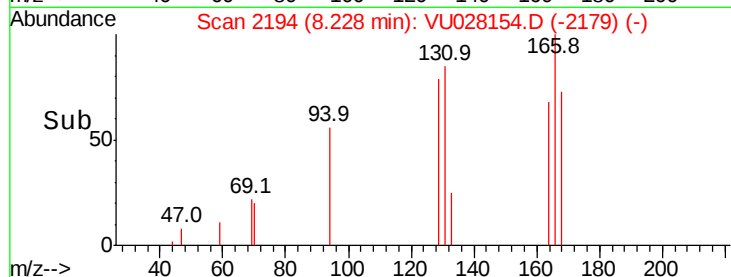
300

200

100

0

Time--> 8.18 8.20 8.22 8.24 8.26



#52

Ethylbenzene

Concen: 0.058 ug/L

RT: 9.25 min Scan# 2513

Delta R.T. 0.00 min

Lab File: VU028154.D

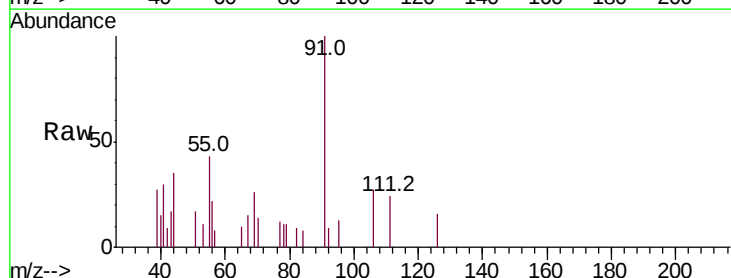
Acq: 15 Nov 2018 05:16

Tgt Ion: 91 Resp: 2732

Ion Ratio Lower Upper

91 100

106 27.2 20.9 38.7



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 106.15 (105.85 to 106.85): V

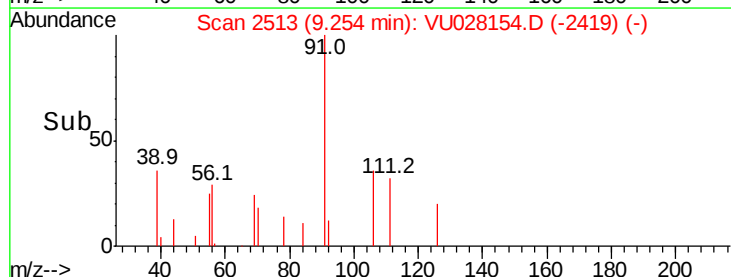
1500

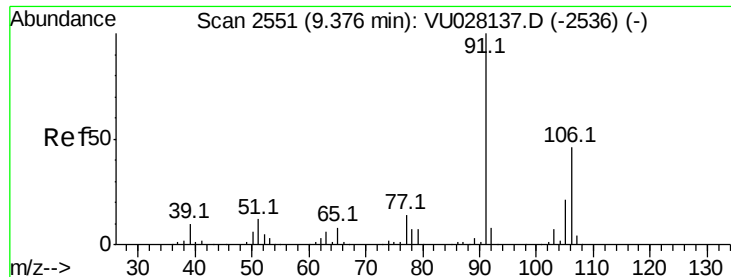
1000

500

0

Time--> 9.20 9.25 9.30





#53

m,p-xylene

Concen: 0.063 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VU028154.D

Acq: 15 Nov 2018 05:16

Instrument :

MSVOA_U

ClientSampleId :

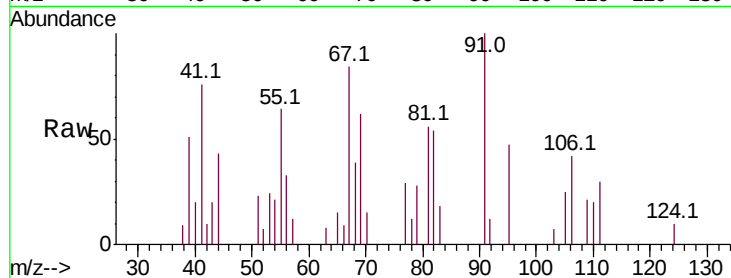
H0FN2

Tot Ion:106 Resp: 1083

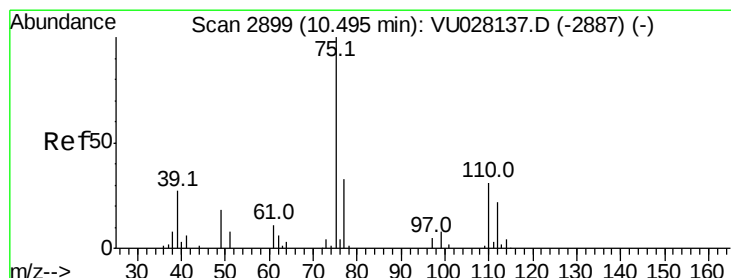
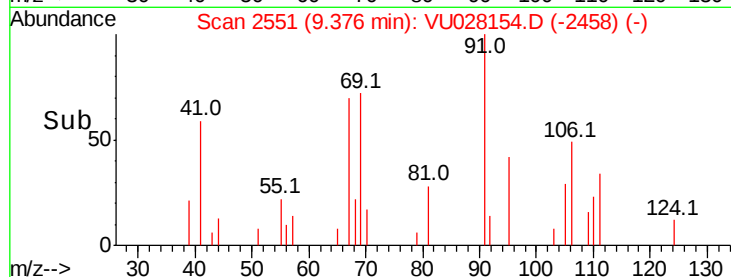
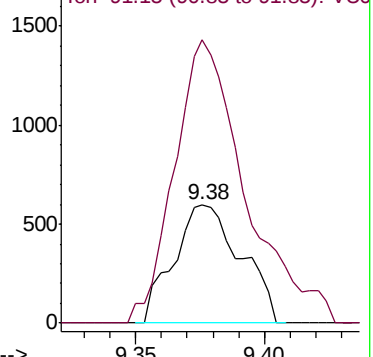
Ion Ratio Lower Upper

106 100

91 238.7 145.7 270.7



Abundance Ion 106.15 (105.85 to 106.85): VU028137.D (-2536) (-)



#59

1,2,3-Trichloropropane

Concen: 1.241 ug/L

RT: 11.48 min Scan# 3205

Delta R.T. 0.98 min

Lab File: VU028154.D

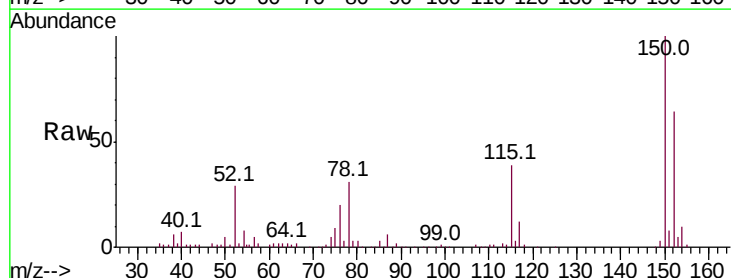
Acq: 15 Nov 2018 05:16

Tgt Ion: 75 Resp: 8045

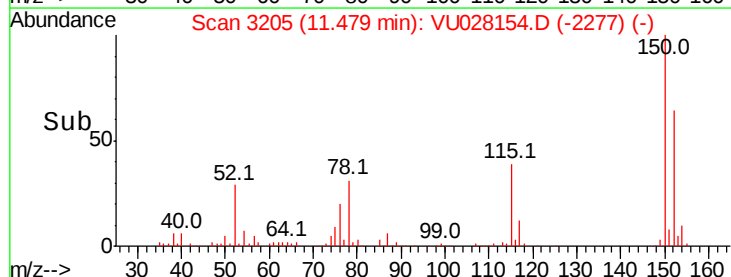
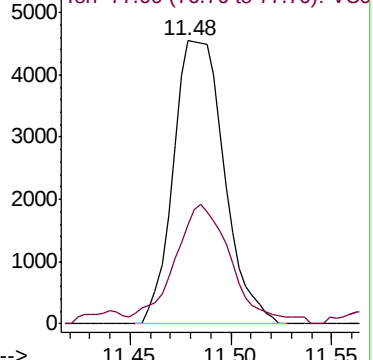
Ion Ratio Lower Upper

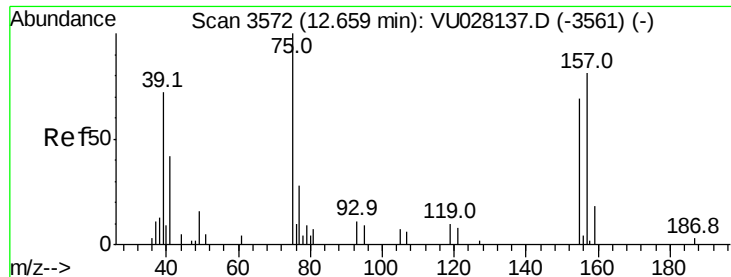
75 100

77 47.2 25.4 38.0#



Abundance Ion 75.00 (74.70 to 75.70): VU028137.D (-2887) (-)





#66

1,2-Dibromo-3-chloropropane

Concen: 0.332 ug/L

RT: 12.53 min Scan# 3533

Delta R.T. -0.13 min

Lab File: VU028154.D

Acq: 15 Nov 2018 05:16

Instrument :

MSVOA_U

ClientSampleId :

H0FN2

Tot Ion: 75 Resp: 412

Ion Ratio Lower Upper

75 100

155 0.0 62.8 94.2#

157 0.0 85.3 127.9#

